

7700007

THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Asgrow Seed Company

CUltereas, there has been presented to the

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, Therefore, this certificate of plant variety protection is to grant unto the said applicant(s) and the successors, heirs or assigns of the said applicant(s) for the term of seventeen years from the date of this grant, subject to the payment of the required fees and periodic replenishment of viable basic seed of the variety in a public repository as provided by LAW, the right to exclude others from selling the variety, or offering it for sale, or reproducing it, or importing it, or exporting it, or using it in producing a hybrid or different riety therefrom, to the extent provided by the Plant Variety Protection Act stat. 1542, as amended, 7 u.s.c. 2321 et seq.)

SOYBEAN

'A1564'

In Testimony Waterrot, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington this 18th day of March in

this 18th day of March in the year of our Lord one thousand nine hundred and seventy-seven

ting Secretary of Agriculture

Allost:

Commissionar

Plant Variety Protection Office

Grain Division

Agricultural Marketing Service

UNITED STATES DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE

GRAIN DIVISION
PLANT VARIETY PROTECTION OFFICE
NATIONAL AGRICULTURAL LIBRARY
BELTSVILLE, MARYLAND 20705

INSTRUCTIONS: See Reverse.			TION CERTIFICATE	
1a. TEMPORARY DESIGNATION OF VARIETY	16. VARIETY NAM		PV NUMBER	IAL USE ONLY
7 № 1 564 8 / 8	I A	1564	1776	00007
2. KIND NAME	3. GENUS AND SPI	'ECIES NAME	FILING DATE	TIME
Soybean	Glycine	max	10-29-76	2:00 P.M.
Soybean 4. FAMILY NAME (BOTANICAL)	5. DATE OF DETE		\$ 250.00	
	1		350.00	
Leguminosae	1973	et and No. or R.F.D. No.,	\$ 250.00 , City, State, and ZIP	8. TELEPHONE AREA
6. NAME OF APPLICANT(S)	7. ADDRESS (Street Code)	or K.F.D. No.	, , , , , , and , and ZIP	CODE AND NUMBER
Asgrow Seed Company	Kalamazo	oo, Michigan 49	9001	616-385-6605
Does Company				
			<u>·</u>	
9. IF THE NAMED APPLICANT IS NOT A ORGANIZATION: (Corporation, partnersh	PERSON, FORM OF hip, association, etc.)	DATE OF INCOF	TED, GIVE STATE AND RPORATION	11. DATE OF INCOR- PORATION
Corporation	12	Delaware	In this on the	March 22, 1968
12. Name and mailing address of app John A. Batcha	plicant representative	e(s), if any, to serve	n this application a	inu receive all papers
7000 Portage Rd. Unit 9630-190-1 Kalamazoo, MI 49001	_			
13. CHECK BOX BELOW FOR EACH ATT	ACHMENT SUBMITTED) :		
			'2 of the Plant Variation P	Protection Act.)
-		(See Section 1	, wire v witely 1	
X 13B. Exhibit B, Novelty State		y (Parent f	Plant Wasiata Date	n Office
13C. Exhibit C, Objective Des			v urwty Protectic	
130. Exhibit D, Additional D	sescription of the Vari			
14A. Does the applicant(s) specify that (See Section 83(a). (If "Yes," ar	nswer 14B and 14C bel	low.)	JYES XINO	
14B. Does the applicant(s) specify tha limited as to number of generation	at this variety be		, how many generations	of production beyond
	YES NO	FOUNDATION	REGISTERED	CERTIFIED
15. Does the applicant(s) agree to the	e publication of his/he	r (their) name(s) and a	address in the Official Jo	ournal? XX yes No
16. The applicant(s) declare(s) that a certificate and will be replenish	a viable sample of basic red periodically in acco	c seed of this variety worldance with such regu	vill be deposited upon re ulations as may be applic	equest before issuance o
The undersigned applicant(s) is variety is distinct, uniform, and tion 42 of the Plant Variety Act.	s (are) the owner(s) of d stable as required in	this sexually reproduc	iced novel plant variety,	, and believe(s) that the
Applicant(s) is (are) informed the		herein can jeopardize	protection and result in	penalties.
october 18, 197		John .	a · Bath (SIGNATURE OF APPL	<u>^</u>
(DAZE)		1	(SIGNATURE OF APPL	
		•		00001
(DATE)			(SIGNATURE OF APPL	LICANT)

EXHIBIT A

Origin and Breeding History of the Variety

- 1969 Original Cross Made at Ames, Iowa Hark x C1453 (C1453 is an Indiana Breeding Line)
- 1970 7 F₁ plants grown in Iowa.
- 1970-71 F_2 and F_3 generations grown in Puerto Rico maintained in bulk populations.
- 1972 F₄ Bulk population grown in Iowa.
 - Single plant selections were threshed individually for F₅ progeny rows.
- 1973 From F₅ progeny rows grown in Iowa, line 0075-71-11629-50202 was selected. All plants within this progeny row were uniform for height, flower, pod, and pubescence color and maturity. Line given experimental designation C73-50202.
- 1974 F line C73-50202 was grown in Preliminary test at Ames, Iowa. Tests consisted of 2 row plots, 16' long, replicated twice. C73-50202 was advanced to Strain Test because of its high yield and other desirable agronomic traits.
- 1975 F₇ line C73-50202 grown in Strain Tests at four locations in Iowa, Minnesota and Wisconsin. Also submitted to state soybean tests in South Dakota as XP1064. In addition, 200 plant rows were grown at Ames, Iowa, and carefully evaluated for genetic segregation. No segregation was noted, all 200 5' plant rows were uniform. Breeder seed quantities of 12 bushels were produced at Ames and 40 bushels of Basic seed were produced at Delray Beach, Florida, during the winter.
 - C73-50202 was assigned the XP number of 1564 because of its intermediate Group I maturity rank.
- 1976 Basic and Foundation seed produced at Clarion, Iowa. All seed fields were free of offtypes and very uniform. *## 1564 was entered into state soybean yield tests in Iowa, Minnesota, South Dakota, and Wisconsin.

EXHIBIT B

Novelty Statement

#21564 is a pure-line soybean cultivar in the same maturity class (Group I) as such soybean cultivars as Hodgson, Chippewa 64, and Hark. It resembles Hark (one of its parents) and Hodgson more than any other cultivars. However, it is clearly distinguished from Hark and Hodgson in the following traits:

1. #1564 has the gene, Rps, for resistance to Race 1 of Phytophthora root rot, whereas Hark and Hodgson does not.

Asgrow Test -

Using pierced hypocotyl technique and inoculum supplied by Dr. Hideo Tachibana of Iowa State University:

	Dead plants out of 50 inoculated
↑ 7 7 1564	
完全 1564	0
Hark	46
Hodgson	47

2. XF1564 matures 4 days earlier than Hark on the average.

1975 Tests:

Location:	Date of <u>X7</u> 1564	Maturity ^a <u>Hark</u>	Difference in Days
Ames, Iowa	9-12	9-17	5
Britt, Iowa	9-11	9-14	3
Blue Earth, Minn.	9-14	9-18	4
Sun Prairie, Wisc.	9-17	9-21	4

^a Average of 4 replications per location. x = 4

 $\frac{7}{2}$ 1564 and Hodgson are of similar maturity LSD.05 = 2

3. **P1564 has a <u>yellow hilum</u> whereas Hodgson has a <u>buff hilum</u>.

UNITED STATES DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE GRAIN DIVISION

HYATTSVILLE, MARYLAND 20782

OBJECTIVE DESCRIPTION OF VARIETY

♠ ≇21564 EXHIBIT C

(Soybean)

1 = DULL 2 = SHINY 1 7 GRAMS PER 100 SEEDS 1 1 = LIGHT 2 = MEDIUM 3 = DARK 1 1 = LIGHT 2 = MEDIUM 3 = DARK 1 1 = LIGHT 2 = MEDIUM 3 = DARK 3 = LARGE 1 1 = SMALL 2 = MEDIUM 3 = DARK 3 = LARGE 1 1 = SMALL 2 = MEDIUM 3 = LARGE 3 = DARK 3 = DA	INSTRUCTIONS: See Reverse. SOYBEAN (GL	YCINE MAX)
ADDRESS (Street and No., or R.F.D. No.; City, State, and ZIP Code) Kalamazoo, Michigan 49001 Place the appropriate number that describes the varietal character of this variety in the boxes below. 1, SEED SHAPE; 1	NAME OF APPLICANT(S)	
Place the appropriate number that describes the varietal character of this variety in the boxes below. 1. SEED SHAPE; 1. 1 = SPHERICAL 2 = SPHERICAL 2 = SPHERICAL 3 = ELONGATE 4 = OTHER (Specify) 2. SEED COAT COLOR: 1. 1 = YELLOW 2 = GREEN 3 = BROWN 4 = BLACK 2 1 = LIGHT 2 = MEDIUM 3 - DARK 5 = DARK 5 = DARK 5 = DARK 5 = DARK 6 = BLACK 7 = OTHER (Specify) 3. SEED COAT LUSTER: 1. 1 = DULL 2 = SHINY 1 7 GRAMS PER 100 SEEDS 5. HILUM COLOR: 2. 1 = BUFF 2 = YELLOW 3 = BROWN 4 = GRAY 5 = DARK 5 = DAR		PVPO NUMBER 7700007
1 1 1 1 1 1 1 1 1 1	Kalamazoo, Michigan 49001	VARIETY NAME OR TEMPORARY DESIGNATION 1564 21.5
1 1 1 1 1 1 2 2 3 3 1 1 1 1 1 1 1 1		
2. SEED COAT COLOR: 1 = YELLOW	1. SEED SHAPE	
1 = YELLOW	1 = SPHERICAL 2 = SPHERICAL 3 = ELONGA	TE 4 = OTHER (Specify)
3. SEED COAT LUSTER: 1 = DULL	2. SEED COAT COLOR:	SHADE:
1 = DULL	11 1 -	4 = BLACK 2 1 = LIGHT 2 = MEDIUM 3 = DARK
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1	1 = DULL 2 = SHINY	1 7 GRAMS PER 100 SEEDS
6 = BLACK 7 = OTHER (Specify) 6. COTYLEDON COLOR: 2	5. HILUM COLOR:	SHADE:
6 = BLACK 7 = OTHER (Specify) 6. COTYLEDON COLOR: 2 1 = YELLOW 2 = GREEN 1 1 = SMALL 2 = MEDIUM 3 = LARGE 3. LEAFLET SHAPE: 1 1 = OVATE 2 = OBLONG 3 = LANCEOLATE 4 = ELLIPTICAL 5 = OTHER (Specify) 9. LEAF COLOR (See reverse): 2 1 = LIGHT GREEN 2 = MEDIUM GREEN 3 = DARK GREEN 1 1 = WHITE 2 = PURPLE 1 1 = SCATTERED 2 = CONCENTRATED 13. PLANT PUBESCENCE COLOR: 1 1 = GRAY 2 = BROWN 3 = OTHER (Specify) 14. PLANT TYPES (See Reverse): 3 1 = SLENDER 2 = BUSHY 3 = INTERMEDIATE 16. HYPOCOTYL COLOR: 17. SEED PROTEIN: 2 1 = DETERMINATE 2 = INDETERMINATE 3 = OTHER (Specify) 17. SEED PROTEIN: 2 1 = A 2 = B 18. NUMBER OF DAYS TO FLOWERING (Place a zero in first box (e.g. [0] 2]) when size is 9 mm. or less.) 19. SIZE OF 10 DAY OLD SEEDLING GROWN UNDER CONSTANT LIGHT (Growth Chamber) AT 25° C. (Place a zero in first box (e.g. [0] 2]) when size is 9 mm. or less.)	1 = BUFF 2 = YELLOW 3 = BROWN 4 = GRAY	5 = IMPERFECT
2 1 = YELLOW 2 = GREEN 1 1 = SMALL 2 = MEDIUM 3 = LARGE 8. LEAFLET SHAPE: 1	6 = BLACK 7 = OTHER (Specify)	1 1 = LIGHT 2 = MEDIUM 3 = DARK
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11. POD COLOR: 1 = TAN	9. LEAF COLOR (See reverse):	10. FLOWER COLOR:
11. POD COLOR: 1	1 = LIGHT GREEN 2 = MEDIUM GREEN 3 = DARK	OVECH II VI
13. PLANT PUBESCENCE COLOR: 1	11. POD COLOR:	
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14. PLANT TYPES (See Reverse): 1	13. PLANT PUBESCENCE COLOR:	SHADE:
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2 3 = OTHER (Specify) 16. HYPOCOTYL COLOR: 17. SEED PROTEIN: 2 1 = A 2 = B 18. NUMBER OF DAYS TO FLOWERING (Place a zero in first box (e.g. 0 9) when days are 9 or less.) 4 8 1 = 00 2 = 0 3 = 1 4 = 11 5 = 111 10 = 00 10 10 = 00 10 1	14. PLANT TYPES (See Reverse):	
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18. NUMBER OF DAYS TO FLOWERING (Place a zero in first box (e.g. 0 9) when days are 9 or less.) 12. 12. 13. NUMBER OF DAYS TO FLOWERING (Place a zero in first box (e.g. 0 9) when days are 9 or less.) 12. 13. 14. 15. 11. 10. 11. 11	16. HYPOCOTYL COLOR:	1
(Place a zero in first box (e.g. 0 9) when days are 9 or less.) Planted 5/10 48 3 6=1V 7=V 8=VI 9=VII 10=VIII 20. SIZE OF 10 DAY OLD SEEDLING GROWN UNDER CONSTANT LIGHT (Growth Chamber) AT 25° C. (Place a zero in first box (e.g. 0 2) when size is 9 mm. or less.)	2 1 = GREEN 2 = PURPLE	2 1 # A 2 = B
days are 9 or less.) 1anted 5/10 48 3 6= IV 7= V 8= VI 9= VII 10 = VIII 20. SIZE OF 10 DAY OLD SEEDLING GROWN UNDER CONSTANT LIGHT (Growth Chamber) AT 25° C. (Place a zero in first box (e.g. 0 2) when size is 9 mm. or less.)	(Diana a serie from to a following)	2-0 2-1 4-11 5-11
20. SIZE OF 10 DAY OLD SEEDLING GROWN UNDER CONSTANT LIGHT (Growth Chamber) AT 25° C. (Place a zero in first box (e.g. 0 2) when size is 9 mm. or less.)	days are 9 or less.)	7
(e.g. [0] 2]) when size is 9 mm. or less.)		
	(e.g. [0] 2]) when size is 9 mm. or less.)	MM. WIDTH
21. DISEASE: (Enter 0 = Not Tested; 1 = Susceptible; 2 = Resistant)	U. COTTEL DON	TT J OF COTYLEDON
2 BACTERIAL 1 SOYBEAN O DOWNY O PURPLE O POD AND O ROOT	BACTERIAL 1 SOYBEAN O DOWNY	101.22
FROGEYE 2 STEM 2 PHYTO- O BROWN O TARGET O BROWN	2 FROGEYE 2 STEM 2 PHYTO-	BROWN TARGET D BROWN
BUD BLIGHT O WILDFIRE O RHIZOCTONIA OTHER (Specify)	1 BUD RHIZOCTONIA	

" A Company of

INSTRUCTIONS

GENERAL: Send an original copy of the application, exhibits and \$250.00 fee to U.S. Dept. of Agriculture, Agricultural Marketing Service, Grain Division, National Agricultural Library, Beltsville, Maryland 20705. (See Section 180.175 of the regulations and rules of practice.) Retain one copy for your files. All items on the face of the form are self-explanatory unless noted below.

ITEM

- Give the date the applicant determined that he had a new variety based on (1) the definition in Section 41(a) of the Act and (2) the date a decision was made to increase the seed.
- Give (1), the genealogy, including public and commerical varieties, lines, or clones used, and the breeding method. (2), the details of subsequent stages of selection and multiplication. (3), the type and frequency of variants during reproduction and multiplication and state how these variants may be identified and (4), evidence of stability.
- Give a summary statement of the variety's novelty. Clearly state how this novel variety may be distinguished from all other varieties in the same crop. If the new variety most closely resembles one or a group of related varieties; (1) identify these varieties and state all differences objectively; (2) Attach statistical data for characters expressed numerically and demonstrate that these differences are significant; and (3) submit, if helpful, seed and plant specimens or photographs of seed and plant comparisons clearly indicating novelty.
- 13c Fill in the Exhibit C, Objective Description form for all characteristics, for which you have adequate data.
- Describe any additional characteristics that are not described, or whose description cannot be accurately conveyed in Exhibit C.

 Use comparative varieties as is necessary to reveal more accurately the description of characteristics that are difficult to describe; such as; plant habit, plant color, disease resistance, etc.

14A If "YES" is specified (seed of this variety be sold by variety name only as a class of certified seed) the applicant may NOT reverse his affirmative decision after the variety has either been sold and so labeled or published or the certificate has been issued. However, if the applicant specifies "NO", he may change his choice. (See Section 180.15 of the Regulations and Rules of Practice.)

HARACTER	NAME OF VARIETY	T SUBMITTED. CHARACTER	NAME OF VARIETY
	Hark	Petiole angle	<u> Hark — — — </u>
Plant shape		Seed size	<u> </u>
Leaf shape	<u>Hark</u> Hark	Seed shape	Hark

23. GIVE DATA FOR SUBMITTED AND SIMILAR STANDARD VARIETY:

23. GIVE DATA FOR SUBMITTED AND SIMILAR STANDARD VARIETY.				í					
	<u> </u>	l i	PLANT		SIZE	CON	TENT	AVERAGE NO. OF PODS PER	IODINE NO.
	NO. OF DAYS		HEIGHT	Width	Length	Protein	Oil	PLANT	
		 		MM	MM			1	
Submitted	118	1.9	36	6	9	41.0	21.7%	84	
Name of similar variety			26			40.6	21 9	81	
Hark	122	2.1	36	1 5	19_	140.0	14107	<u> </u>	<u></u>

INSTRUCTIONS

GENERAL: The following publications may be used as a reference aid for completing this form:

- 1. Scott, Walter O. and Samuel R. Aldrich, 1970, Modern Soybean Production, The Farmer Quarterly.
- 2. Norman, A. G., 1963, The Soybean: Genetics, Breeding, Physiology, Nutrition, Management.
- 3. McKie, J. W., and K. L. Anderson, 1970, The Soybean Book.

LEAF COLOR: Nickerson's or any recognized color fan may be used to determine the leaf color of the described variety. The following Soybean varieties may be used as a guide to identify the colors listed on the form.

COLOR	VARIETY
Light Green	''Ada''
Medium Green	"Wilkin"
Dark Green	"Swift"

LEAF SIZE: The following varieties may be used as a guide to identify the relative size leaves.

SIZE	VARIETY
Small	"Amsoy"
Medium	"Bonus"
Large	''Anoka''

PLANT TYPE: The following varieties may be used as a guide to identify the plant type.

TYPE	VARIETY
Slender	''Vansoy''
Intermediate Bushy	"Wirth"
	''Adelphia''

